

The Trail Inventory of Willapa NWR

Ilwaco, WA



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Federal Highway Administration
Central Federal Lands Highway Division
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Willapa NWR

Trail and Trail Feature Summaries

Trail Miles and Percentages by Surface Type and Condition

Trail Surface Type	Excellent		Good		Fair		Others		Total
	Miles	%	Miles	%	Miles	%	Miles	%	Miles
Native	10.42	83%	0.73	6%	1.35	11%	0.00	0%	12.50
Gravel	0.32	100%	0.00	0%	0.00	0%	0.00	0%	0.32
Boardwalk	0.11	100%	0.00	0%	0.00	0%	0.00	0%	0.11
Admin Road	0.00	0%	0.00	0%	0.00	0%	7.54	100%	7.54
Total	10.85	53%	0.73	4%	1.35	7%	7.54	37%	20.47

Trail Miles and Percentages by Trail Classification and Condition

Trail Classification	Excellent		Good		Fair		Others		Total
	Miles	%	Miles	%	Miles	%	Miles	%	Miles
TC1	0.58	100%	0.00	0%	0.00	0%	0.00	0%	0.58
TC2	5.49	80%	0.00	0%	1.35	20%	0.00	0%	6.84
TC3	4.58	36%	0.73	6%	0.00	0%	7.54	59%	12.85
TC4	0.20	100%	0.00	0%	0.00	0%	0.00	0%	0.20
Total	10.85	53%	0.73	4%	1.35	7%	7.54	37%	20.47

*Admin Roads are included in the inventory but are not rated for condition.

Trail Features

Trail Number	Feature Type	Quantity	Grouped Feature	Milepost	Photo
T200	Sign	1	No	0.00	WILL_C2_0011
T200	Trailhead	1	No	0.00	WILL_C2_0010
T200	Sign	9	Yes	0.18	WILL_C2_0012
T200	Sign	1	No	1.22	WILL_C2_0027
T200	Sign	3	No	1.23	WILL_C2_0028
T201	Trailhead	1	No	0.00	WILL_C2_0049
T202	Trailhead	1	No	0.00	WILL_C2_0058
T203	Trailhead	1	No	0.00	WILL_C2_0087
T203	Sign	1	No	0.00	WILL_C2_0088
T203	Sign	2	No	0.52	WILL_C2_0090
T204	Sign	1	No	0.00	WILL_C2_0091
T204	Trailhead	1	No	0.00	WILL_C2_0092
T204	Culvert -lf	6	No	0.38	
T205	Sign	1	No	0.00	WILL_C2_0094
T205	Trailhead	1	No	0.00	WILL_C2_0093
T206	Trailhead	1	No	0.00	WILL_C2_0095
T206	Boardwalk -lf	25	No	0.17	WILL_C2_0096
T206	Sign	2	No	0.21	WILL_C2_0097
T206	Begin Section	1	No	0.23	WILL_C2_0099
T206	Sign	1	No	0.23	WILL_C2_0098
T206	Sign	1	No	0.23	WILL_C2_0100
T206	Boardwalk -lf	55	No	0.34	WILL_C2_0101
T206	Boardwalk -lf	10	No	0.36	WILL_C2_0102

T206	Boardwalk -lf	22	No	0.40	WILL_C2_010 3
T207	Trailhead	1	No	0.00	WILL_C2_010 5
T207	Sign	1	No	0.00	WILL_C2_010 6
T207	Begin Section	1	No	0.48	WILL_C2_010 7
T207	Begin Section	1	No	0.48	WILL_C2_010 9
T207	Sign	2	No	0.63	WILL_C2_010 8
T300	Begin Section	1	No	0.00	WILL_C2_003 2
T300	Trailhead	1	No	0.00	WILL_C2_000 1
T300	Sign	1	No	0.00	WILL_C2_000 3
T300	Sign	3	No	0.00	WILL_C2_000 2
T300	Boardwalk -lf	30	No	0.06	WILL_C2_000 5
T300	Sign	2	Yes	0.06	WILL_C2_000 6
T300	Begin Section	1	No	0.07	WILL_C2_003 0
T300	Begin Section	1	No	0.20	WILL_C2_002 9
T300	Intersection	1	No	0.58	
T300	Begin Section	1	No	0.58	WILL_C2_000 9
T301	Trailhead	1	No	0.00	WILL_C2_003 3
T301	Sign	1	No	1.05	WILL_C2_003 4
T301	Intersection	1	No	1.42	
T301	Intersection	1	No	2.67	
T301	Sign	1	No	2.67	WILL_C2_003 5
T301	Intersection	1	No	2.89	
T301	Intersection	1	No	3.89	
T301	Water Control Struc	1	No	4.27	
T301	Begin Section	1	No	4.39	WILL_C2_003 6
T301	Intersection	1	No	4.39	
T301	Intersection	1	No	4.93	
T301	Begin Section	1	No	5.54	WILL_C2_003 7
T301	Culvert -lf	8	No	5.92	
T301	Culvert -lf	12	No	6.34	

T301	Begin Section	1	No	7.16	WILL_C2_003 8
T301	Intersection	1	No	8.19	
T301	Sign	1	No	8.54	WILL_C2_003 9
T301	Sign	1	No	8.66	WILL_C2_004 1
T301	Sign	1	No	8.70	WILL_C2_004 2
T301	Puncheon -lf	75	No	8.78	WILL_C2_004 3
T301	Begin Section	1	No	8.80	WILL_C2_004 5
T301	Sign	2	No	8.80	WILL_C2_004 4
T301	Bridge -sf	12	No	8.92	WILL_C2_004 6
T301	Bridge -sf	6	No	8.94	WILL_C2_004 7
T301	Sign	1	No	9.02	WILL_C2_004 8
T301	Bench	3	No	9.02	
T302	Trailhead	1	No	0.00	WILL_C2_005 0
T302	Water Control Struc	1	No	0.37	
T302	Culvert -lf	12	No	0.43	
T302	Culvert -lf	12	No	0.66	
T302	Bridge -sf	24	No	0.72	WILL_C2_005 2
T302	Begin Section	1	No	1.18	WILL_C2_005 3
T302	Begin Section	1	No	1.18	WILL_C2_005 9
T302	Culvert -lf	8	No	1.36	
T302	Begin Section	1	No	1.55	WILL_C2_006 0
T302	Culvert -lf	5	No	1.66	
T302	Begin Section	1	No	1.91	WILL_C2_005 6
T302	Culvert -lf	6	No	1.98	
T302	Intersection	1	No	2.24	
T302	Begin Section	1	No	2.32	WILL_C2_005 7
T303	Trailhead	1	No	0.00	WILL_C2_006 3
T303	Gate	1	No	0.00	
T303	Water Control Struc	1	No	0.72	
T303	Intersection	1	No	0.79	
T303	Bridge -sf	288	No	1.08	WILL_C2_006 4

T303	Water Control Struc	1	No	1.46	
T303	Bridge -sf	288	No	1.56	WILL_C2_006 5
T304	Trailhead	1	No	0.00	WILL_C2_006 6
T305	Gate	1	No	0.00	
T305	Trailhead	1	No	0.00	WILL_C2_008 5
T400	Trailhead	1	No	0.00	WILL_C2_006 8
T400	Begin Section	1	No	0.02	WILL_C2_006 9
T400	Begin Section	1	No	0.07	WILL_C2_007 0
T400	Lookout/Ob Deck	1	No	0.08	
T400	Begin Section	1	No	0.11	WILL_C2_007 2
T400	Bench	1	No	0.13	
T400	Boardwalk -lf	38	No	0.13	WILL_C2_007 1
T400	Sign	1	No	0.15	WILL_C2_007 8
T400	Step: Log -each	38	No	0.15	
T400	Step: Log -each	35	No	0.20	
T400	Step: Log -each	8	No	0.26	
T400	Boardwalk -lf	12	No	0.27	WILL_C2_007 3
T400	Step: Log -each	7	No	0.37	
T400	Step: Log -each	6	No	0.48	
T400	Step: Log -each	62	No	0.49	
T400	Boardwalk -lf	12	No	0.52	WILL_C2_007 5
T400	Boardwalk -lf	7	No	0.52	WILL_C2_007 4
T400	Boardwalk -lf	12	No	0.54	WILL_C2_007 6
T400	Step: Log -each	6	No	0.54	
T400	Bench	7	No	0.59	
T400	Sign	1	No	0.60	WILL_C2_007 7
T400	Step: Log -each	26	No	0.70	
T400	Bench	1	No	0.71	
T400	Puncheon -lf	44	No	0.71	WILL_C2_008 2
T400	Sign	1	No	0.71	WILL_C2_008 3
T400	Boardwalk -lf	20	No	0.74	WILL_C2_008 1
T400	Boardwalk -lf	14	No	0.75	WILL_C2_008 0

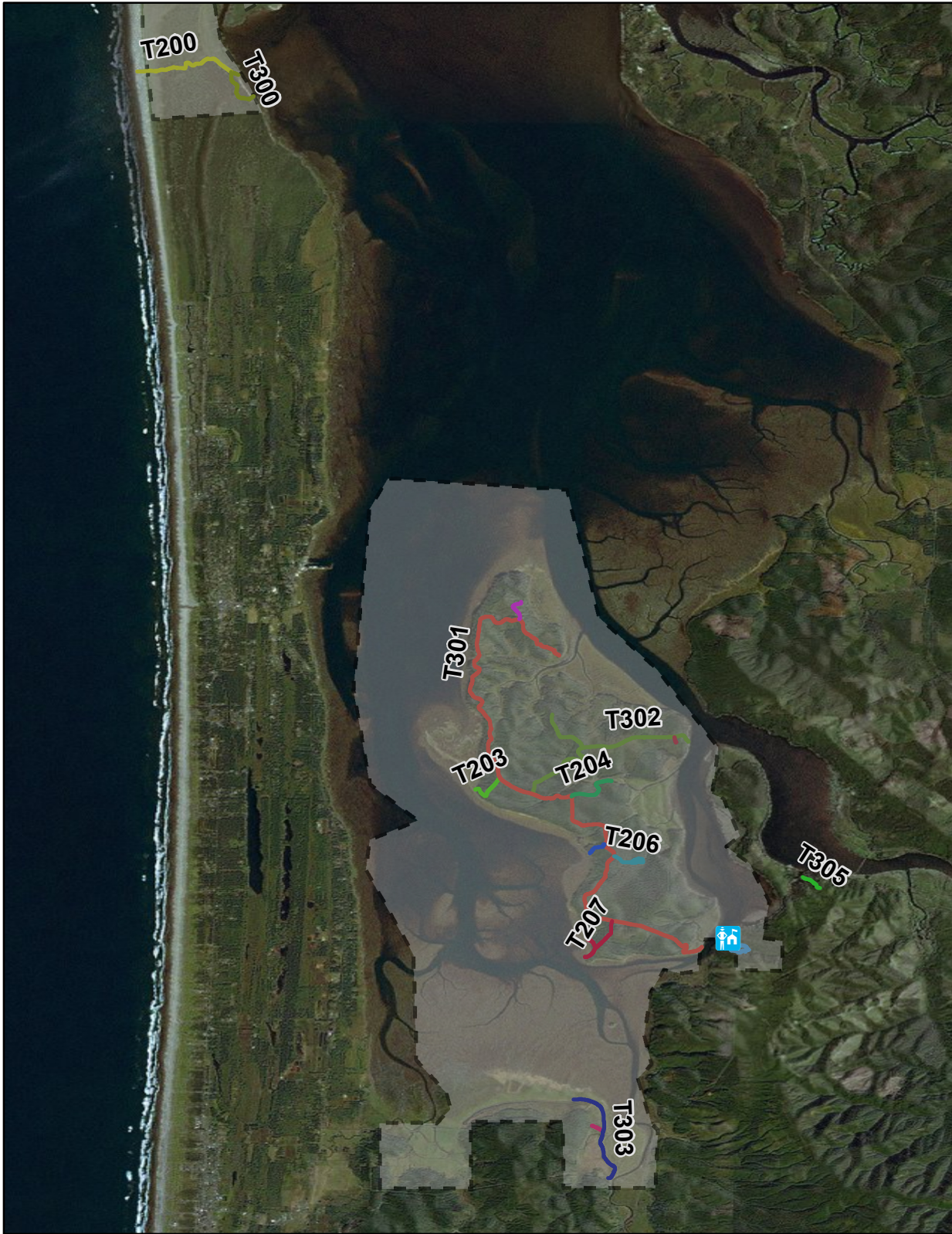
T400	Boardwalk -lf	10	No	0.76	WILL_C2_007 0
T400	Step: Log -each	7	No	0.77	
T400	Sign	11	Yes	0.82	WILL_C2_008 4

sf - square feet

lf - linear feet

cf - cubic feet

Willapa NWR Trail Location Map



Station Boundary



HQ/VC

0 2.5 5 Miles

Trails ID

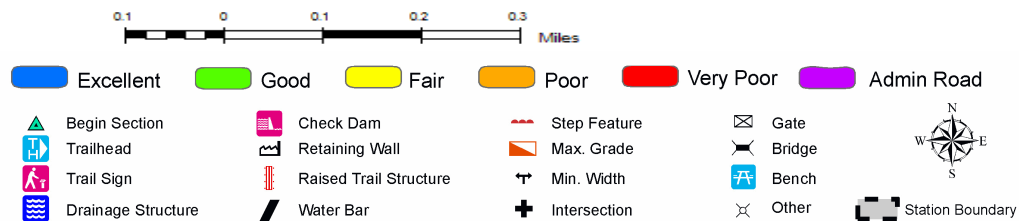
Station Name: Willapa NWR

Org Code: 13552

Trail Number	Trail Name	Surface Type	SAMMS	Trail Mileage	Trail Description (Begin and End point of trail)
T200	Bearberry Trail	Native	10003747	1.35	From Leadbetter Trail (T300) Sec 003 to end of trail at the beach
T201	No Name Trail	Native	10003687	0.36	From Center Road Trail (T301) to end of trail
T202	Paradise Point Spur Trail	Native	10003692	0.09	From Paradise Point Trail (T302) to end of trail
T203	Sand Spit Trail	Native	10003689	0.52	From Centerline Road Trail (T300) to end of trail at campground
T204	Sawlog Trail	Native	10003690	0.67	From Centerline Road Trail (T300) to end of trail at campground
T205	Smoky Hallow Trail	Native	10003689	0.26	From Centerline Road Trail (T300) to end of trail at the beach
T206	Don Bonker Trail	Gravel	10042349	0.23	From Centerline Road Trail (T300) to end of trail loop
T206	Don Bonker Trail	Native	10042349	0.35	From Centerline Road Trail (T300) to end of trail loop
T207	High Point Trail	Native	10003688	0.86	From Centerline Road Trail (T300) to end of trail at the beach
T300	Leadbetter Bay Loop Trail	Gravel	10003746	0.07	From Leadbetter Bay Parking (Rte 903) to end of Sec 005 at refuge boundary
T300	Leadbetter Bay Loop Trail	Native	10003746	0.68	From Leadbetter Bay Parking (Rte 903) to end of Sec 005 at refuge boundary
T301	Center Road Trail	Admin Road	10003687	5.54	From Boat Launch on Long Island to end of trail at Lewis Campground
T301	Center Road Trail	Native	10003687	3.48	From Boat Launch on Long Island to end of trail at Lewis Campground
T302	Paradise Point Trail	Native	10003691	2.46	From Center Road Trail (T301) to trail tread indistiguishable
T302	Paradise Point Trail	Native	10003695	0.73	From Center Road Trail (T301) to trail tread indistiguishable
T303	Lewis Dike Trail	Admin Road	10003670	1.56	From East of Lewis Unit Parking (Rte 901) at gate to end of trail at sign

T304	Lewis Cross Dike Trail	Admin Road	10003671	0.16	From Lewis Dike Trail (T303) to end of trail at sign
T305	Teal Slough Trail	Admin Road	10036822	0.28	From Teal Slough Parking (Rte 907) to fork in road
T400	Salmon Art Trail	Boardwalk	10052501	0.05	From Headquarters Parking (Rte 900) to end of trail loop
T400	Salmon Art Trail	Boardwalk	10052502	0.06	From Headquarters Parking (Rte 900) to end of trail loop
T400	Salmon Art Trail	Gravel	10053967	0.02	From Headquarters Parking (Rte 900) to end of trail loop
T400	Salmon Art Trail	Native	10053967	0.69	From Headquarters Parking (Rte 900) to end of trail loop

TRAIL CONDITION



Trail Name: Bearberry Trail
Trail Number: T200

Refuge Name: Willapa NWR
Region: 1

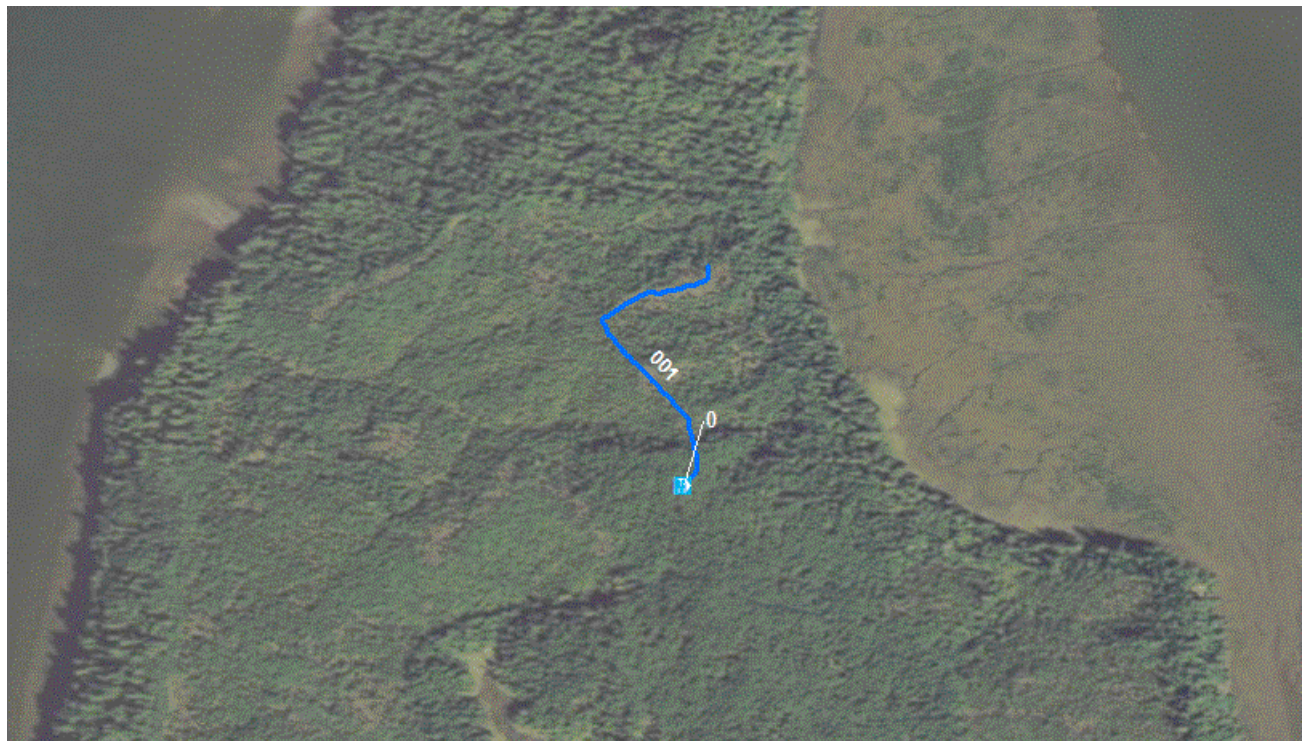
Total Length: 1.35 Miles

Section Number	001
Section Length (miles)	1.35
SAMMS Number	10003747
Rating Date	05/16/2007
Trail Section Information	
Trail Class	TC2
Surface Type	Native
Surface Firmness	Soft
Width (inches)	24
Average Grade (%)	6.9
Average X-slope (%)	1.20
Trail Condition Information	
Deferred Maintenance	\$5,919
CRV	\$68,874
FCI	0.09
Condition	Fair

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$5,919	\$68,874	0.09	Fair

TRAIL CONDITION



Trail Name: No Name Trail
Trail Number: T201

Refuge Name: Willapa NWR
Region: 1

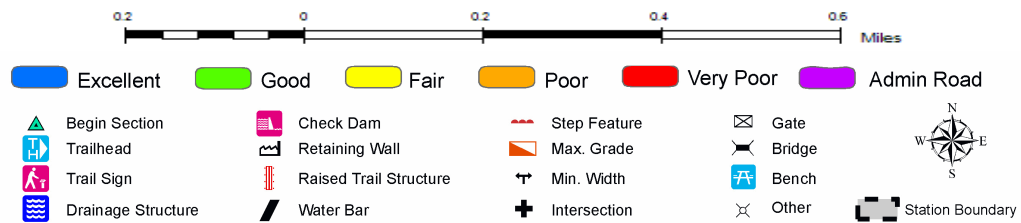
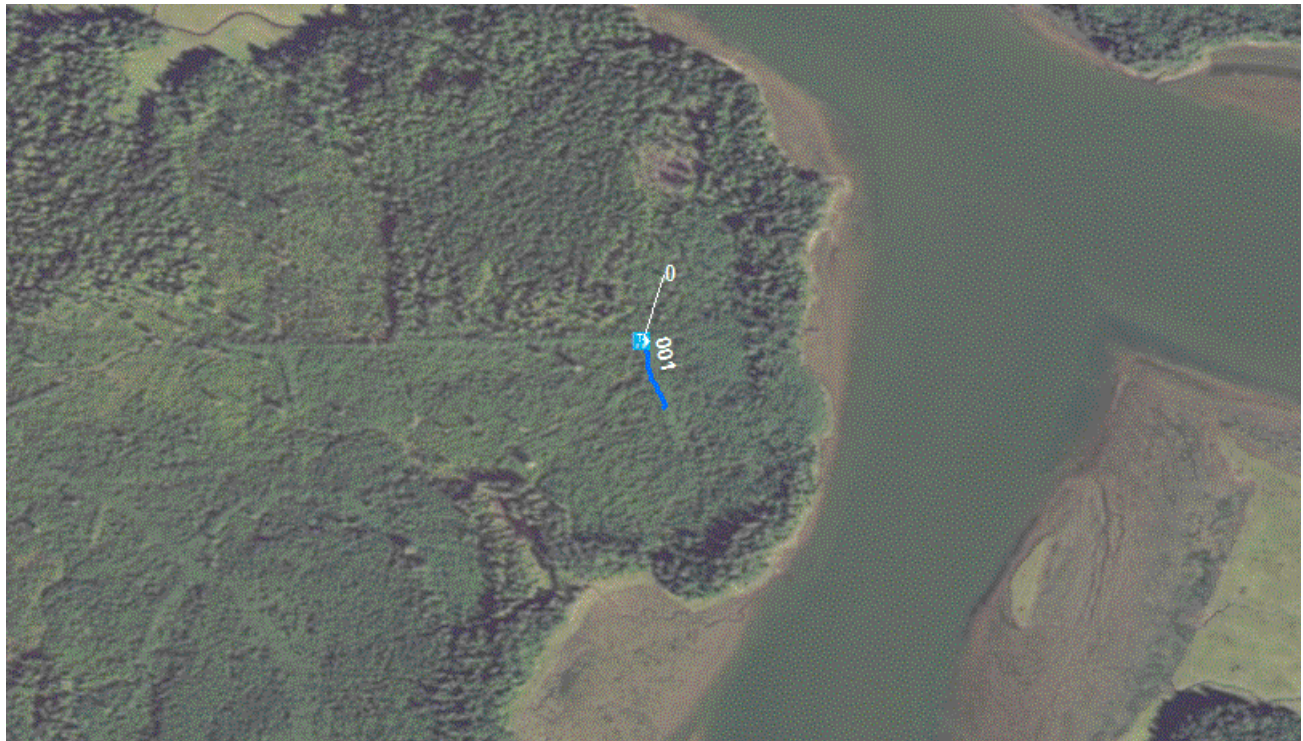
Total Length: 0.36 Miles

Section Number	001
Section Length (miles)	0.36
SAMMS Number	10003687
Rating Date	05/17/2007
Trail Section Information	
Trail Class	TC2
Surface Type	Native
Surface Firmness	Firm
Width (inches)	36
Average Grade (%)	11.1
Average X-slope (%)	8.10
Trail Condition Information	
Deferred Maintenance	
CRV	\$27,548
FCI	0.00
Condition	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$27,548	0.00	Excellent

TRAIL CONDITION



Trail Name: Paradise Point Spur Trail

Refuge Name: Willapa NWR

Trail Number: T202

Region: 1

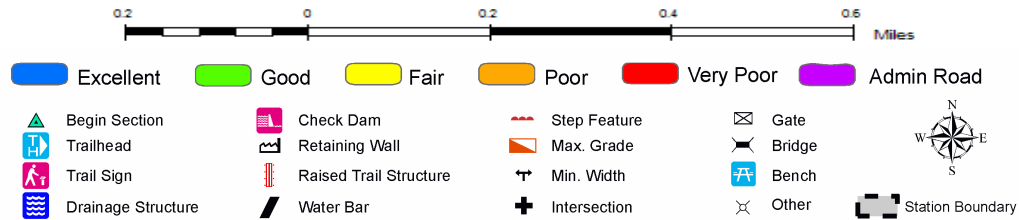
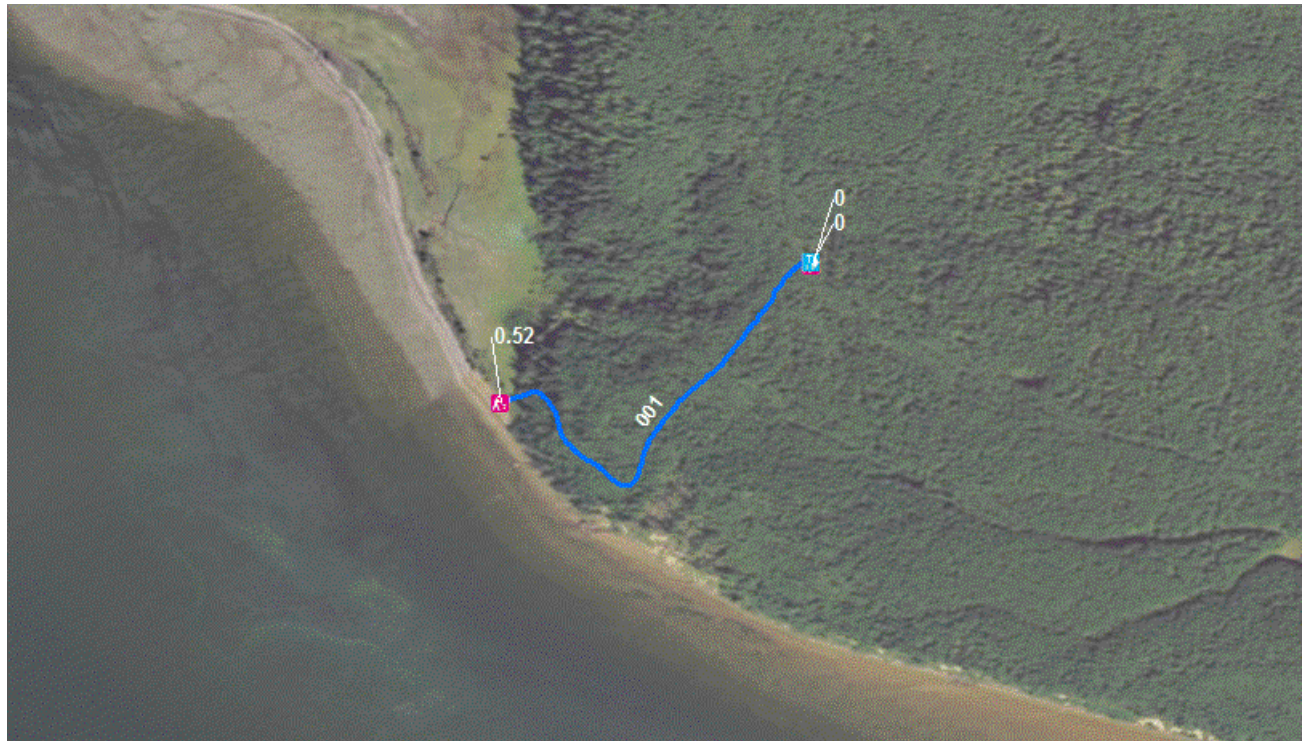
Total Length: 0.09 Miles

Section Number	001
Section Length (miles)	0.09
SAMMS Number	10003692
Rating Date	05/17/2007
Trail Section Information	
Trail Class	TC2
Surface Type	Native
Surface Firmness	Firm
Width (inches)	36
Average Grade (%)	3.5
Average X-slope (%)	2.70
Trail Condition Information	
Deferred Maintenance	
CRV	\$6,889
FCI	0.00
Condition	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$6,889	0.00	Excellent

TRAIL CONDITION



Trail Name: Sand Spit Trail
Trail Number: T203

Refuge Name: Willapa NWR
Region: 1

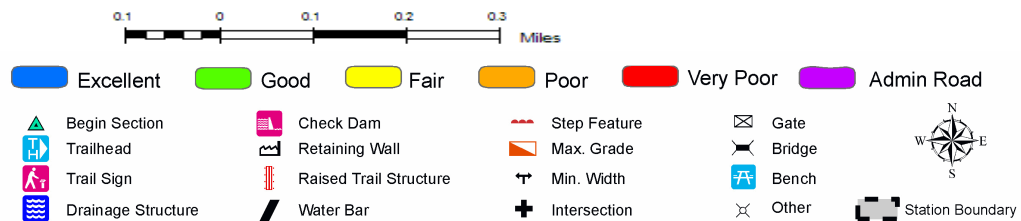
Total Length: 0.52 Miles

Section Number	001
Section Length (miles)	0.52
SAMMS Number	10003689
Rating Date	05/19/2007
Trail Section Information	
Trail Class	TC2
Surface Type	Native
Surface Firmness	Firm
Width (inches)	60
Average Grade (%)	9.9
Average X-slope (%)	3.70
Trail Condition Information	
Deferred Maintenance	\$175
CRV	\$66,323
FCI	0.00
Condition	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$175	\$66,323	0.00	Excellent

TRAIL CONDITION



Trail Name: Sawlog Trail
Trail Number: T204

Refuge Name: Willapa NWR
Region: 1

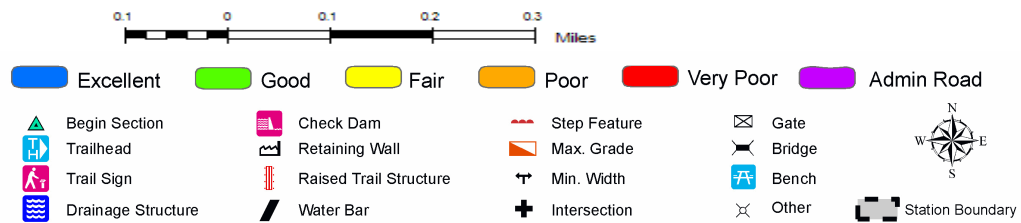
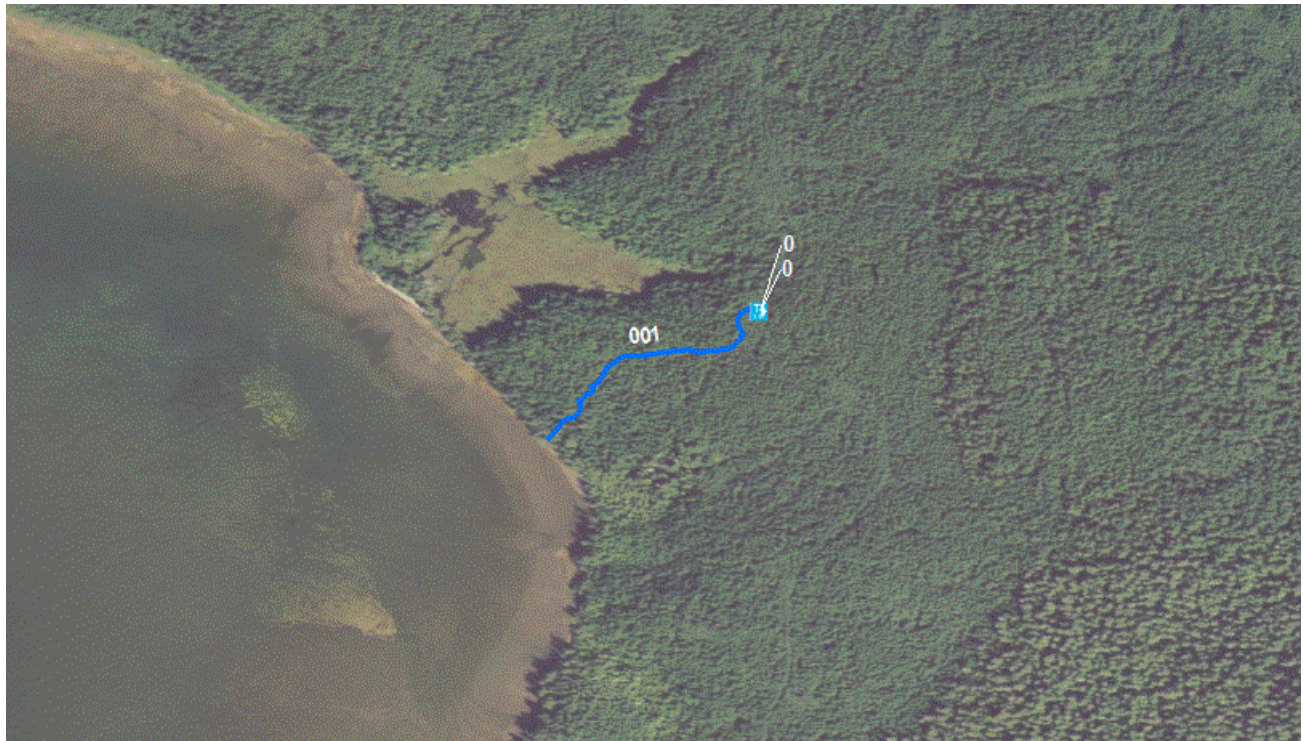
Total Length: 0.67 Miles

Section Number	001
Section Length (miles)	0.67
SAMMS Number	10003690
Rating Date	05/19/2007
Trail Section Information	
Trail Class	TC2
Surface Type	Native
Surface Firmness	Firm
Width (inches)	48
Average Grade (%)	4.2
Average X-slope (%)	2.60
Trail Condition Information	
Deferred Maintenance	
CRV	\$68,361
FCI	0.00
Condition	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$68,361	0.00	Excellent

TRAIL CONDITION



Trail Name: Smoky Hallow Trail
Trail Number: T205

Refuge Name: Willapa NWR
Region: 1

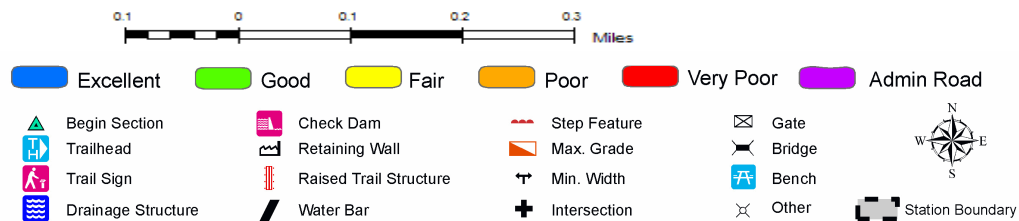
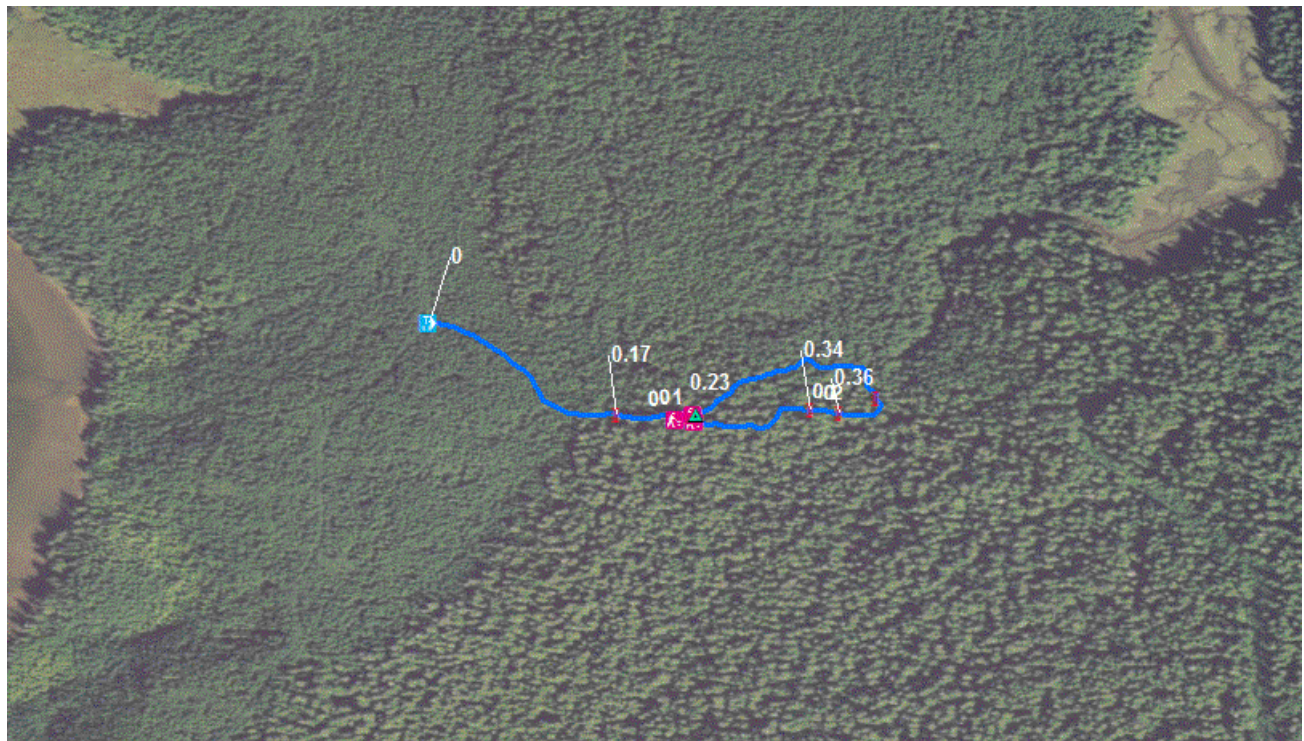
Total Length: 0.26 Miles

Section Number	001
Section Length (miles)	0.26
SAMMS Number	10003689
Rating Date	05/19/2007
Trail Section Information	
Trail Class	TC2
Surface Type	Native
Surface Firmness	Firm
Width (inches)	48
Average Grade (%)	5.4
Average X-slope (%)	1.70
Trail Condition Information	
Deferred Maintenance	
CRV	\$26,528
FCI	0.00
Condition	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$26,528	0.00	Excellent

TRAIL CONDITION



Trail Name: Don Bonker Trail
Trail Number: T206

Refuge Name: Willapa NWR
Region: 1

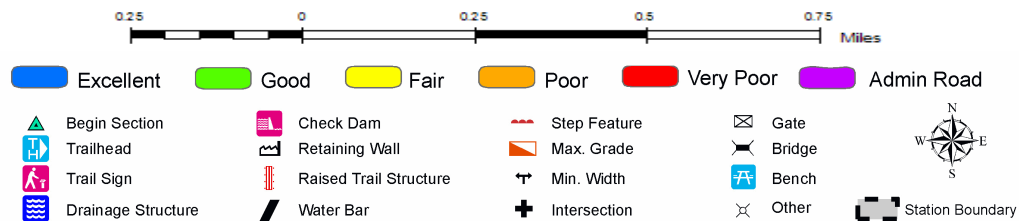
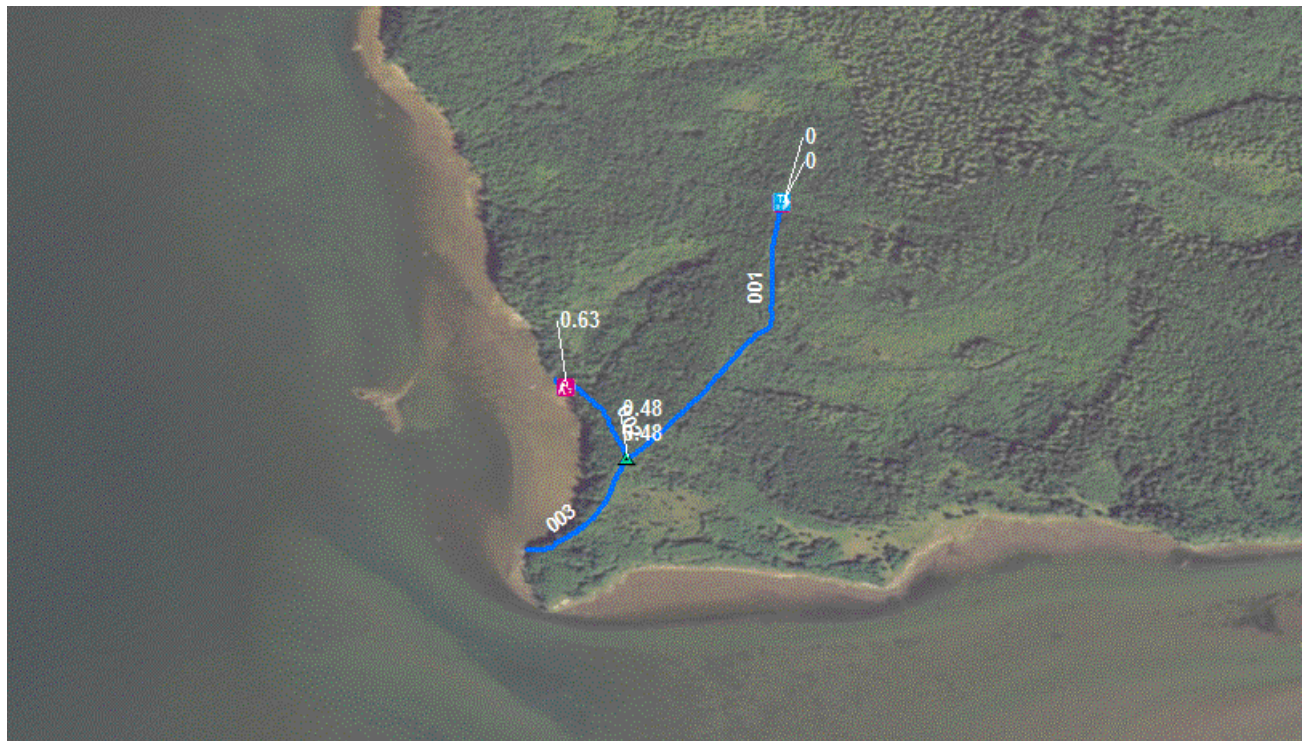
Total Length: 0.58 Miles

Section Number	001	002
Section Length (miles)	0.23	0.35
SAMMS Number	10042349	10042349
Rating Date	05/19/2007	05/19/2007
Trail Section Information		
Trail Class	TC2	TC2
Surface Type	Gravel	Native
Surface Firmness	Firm	Firm
Width (inches)	60	36
Average Grade (%)	4.6	4.6
Average X-slope (%)	3.30	3.30
Trail Condition Information		
Deferred Maintenance		
CRV	\$32,002	\$26,784
FCI	0.00	0.00
Condition	Excellent	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$58,786	0.00	Excellent

TRAIL CONDITION



Trail Name: High Point Trail
Trail Number: T207

Refuge Name: Willapa NWR
Region: 1

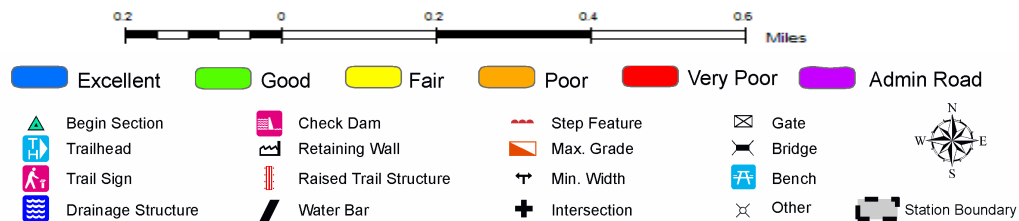
Total Length: 0.86 Miles

Section Number	001	002	003
Section Length (miles)	0.48	0.17	0.21
SAMMS Number	10003688	10003688	10003688
Rating Date	05/19/2007	05/19/2007	05/19/2007
Trail Section Information			
Trail Class	TC2	TC2	TC2
Surface Type	Native	Native	Native
Surface Firmness	Firm	Firm	Firm
Width (inches)	60	60	60
Average Grade (%)	8.8	8.8	8.8
Average X-slope (%)	2.40	2.40	2.40
Trail Condition Information			
Deferred Maintenance			
CRV	\$61,221	\$21,682	\$26,784
FCI	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$109,688	0.00	Excellent

TRAIL CONDITION



Trail Name: Leadbetter Bay Loop Trail
Trail Number: T300

Refuge Name: Willapa NWR
Region: 1

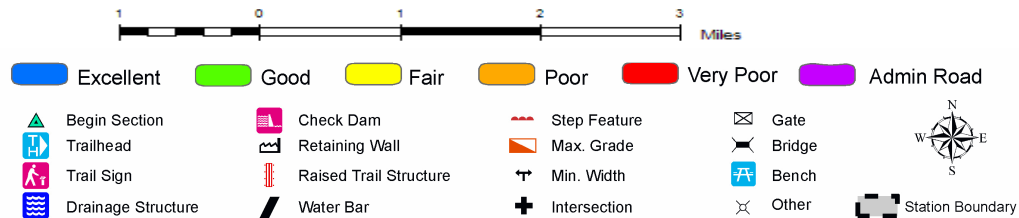
Total Length: 0.75 Miles

Section Number	001	002	003	004	005
Section Length (miles)	0.07	0.07	0.13	0.38	0.10
SAMMS Number	10003746	10003746	10003746	10003746	10003746
Rating Date	05/16/2007	05/16/2007	05/16/2007	05/16/2007	05/16/2007
Trail Section Information					
Trail Class	TC4	TC3	TC3	TC3	TC3
Surface Type	Gravel	Native	Native	Native	Native
Surface Firmness	Firm	Firm	Firm	Firm	Soft
Width (inches)	60	42	57	24	28
Average Grade (%)	3.8	3.8	3.8	3.8	3.8
Average X-slope (%)	6.90	6.90	6.90	6.90	6.90
Trail Condition Information					
Deferred Maintenance	\$0				
CRV	\$9,740	\$6,252	\$15,750	\$19,388	\$5,952
FCI	0.00	0.00	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent	Excellent	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$57,081	0.00	Excellent

TRAIL CONDITION



Trail Name: Center Road Trail
Trail Number: T301

Refuge Name: Willapa NWR
Region: 1

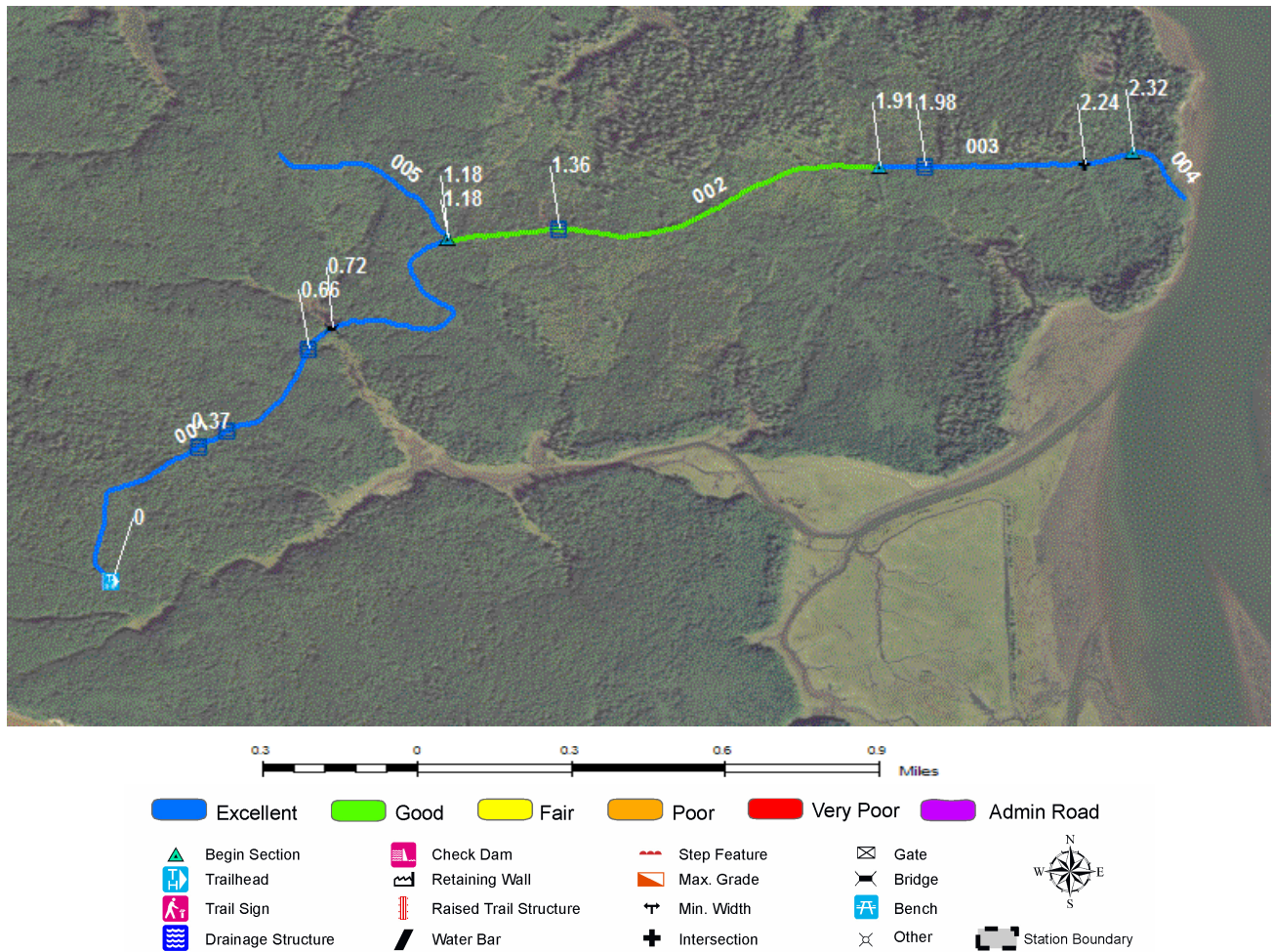
Total Length: 9.02 Miles

Section Number	001	002	003	004	005
Section Length (miles)	4.39	1.15	1.62	1.64	0.22
SAMMS Number	10003687	10003687	10003687	10003687	10003687
Rating Date	05/17/2007	05/17/2007	05/17/2007	05/17/2007	05/17/2007
Trail Section Information					
Trail Class	TC3	TC3	TC3	TC2	TC1
Surface Type	Admin Road	Admin Road	Native	Native	Native
Surface Firmness	Firm	Firm	Firm	Firm	Firm
Width (inches)	120	120	72	36	36
Average Grade (%)	4.2	4.2	4.2	4.2	4.2
Average X-slope (%)	3.80	3.80	3.80	3.80	3.80
Trail Condition Information					
Deferred Maintenance				\$1,707	
CRV			\$247,947	\$125,505	\$16,837
FCI			0.00	0.01	0.00
Condition			Excellent	Excellent	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$1,707	\$390,289	0.00	Excellent

TRAIL CONDITION



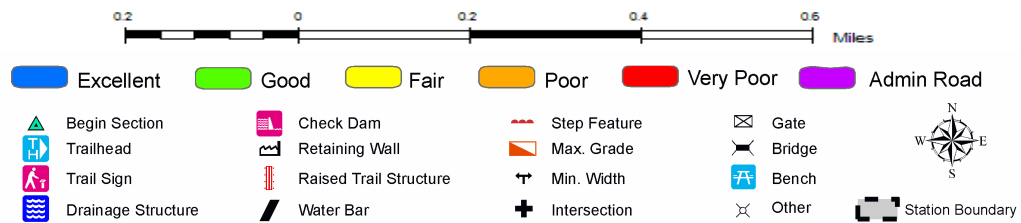
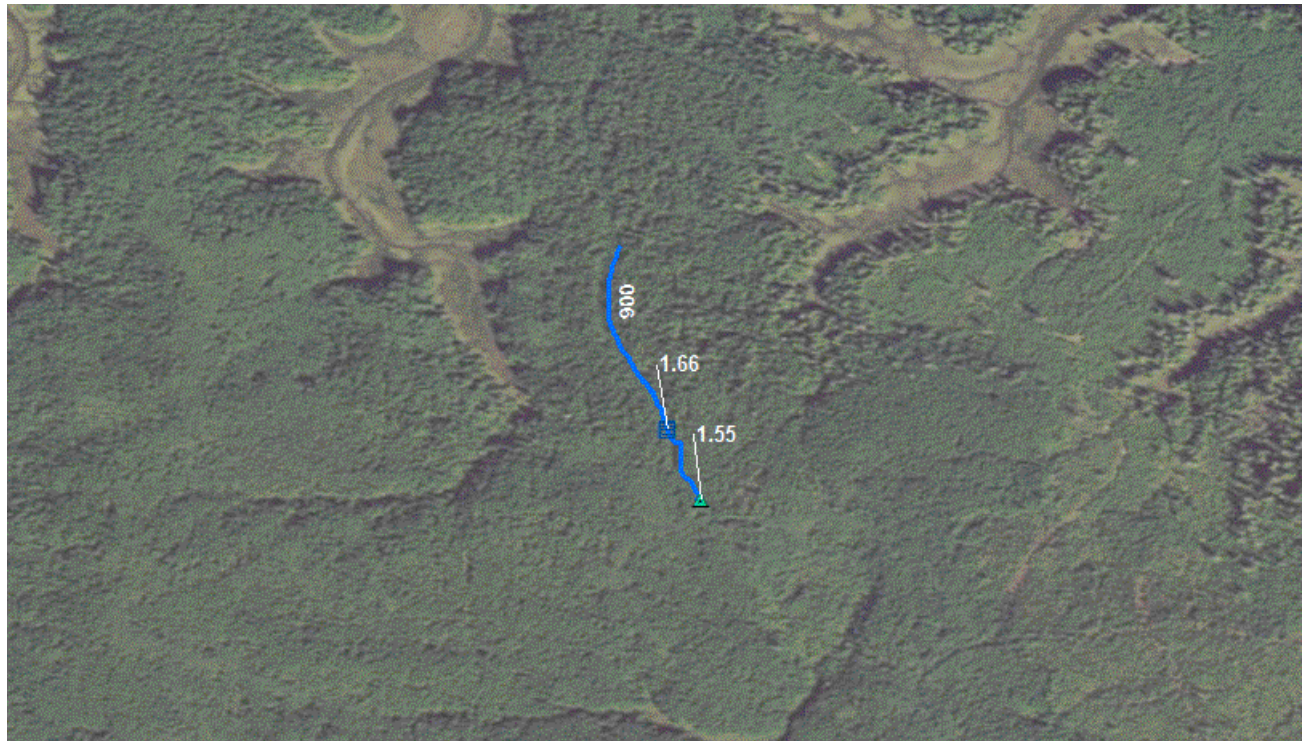
Trail Name: Paradise Point Trail
Trail Number: T302

Refuge Name: Willapa NWR
Region: 1

Total Length: 3.19 Miles

Section Number	001	002	003	004	005
Section Length (miles)	1.18	0.73	0.41	0.14	0.37
SAMMS Number	10003691	10003691	10003691	10003691	10003695
Rating Date	05/17/2007	05/17/2007	05/17/2007	05/17/2007	05/17/2007
Trail Section Information					
Trail Class	TC3	TC3	TC3	TC2	TC2
Surface Type	Native	Native	Native	Native	Native
Surface Firmness	Firm	Firm	Firm	Firm	Firm
Width (inches)	120	60	48	36	72
Average Grade (%)	6.8	6.8	6.8	6.8	6.8
Average X-slope (%)	2.20	2.20	2.20	2.20	2.20
Trail Condition Information					
Deferred Maintenance	\$3,797	\$2,991			
CRV	\$301,003	\$93,107	\$41,833	\$10,716	\$56,631
FCI	0.01	0.03	0.00	0.00	0.00
Condition	Excellent	Good	Excellent	Excellent	Excellent

TRAIL CONDITION



Trail Name: Paradise Point Trail
Trail Number: T302

Refuge Name: Willapa NWR
Region: 1

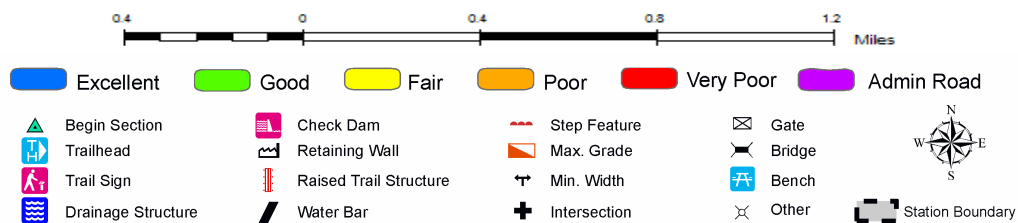
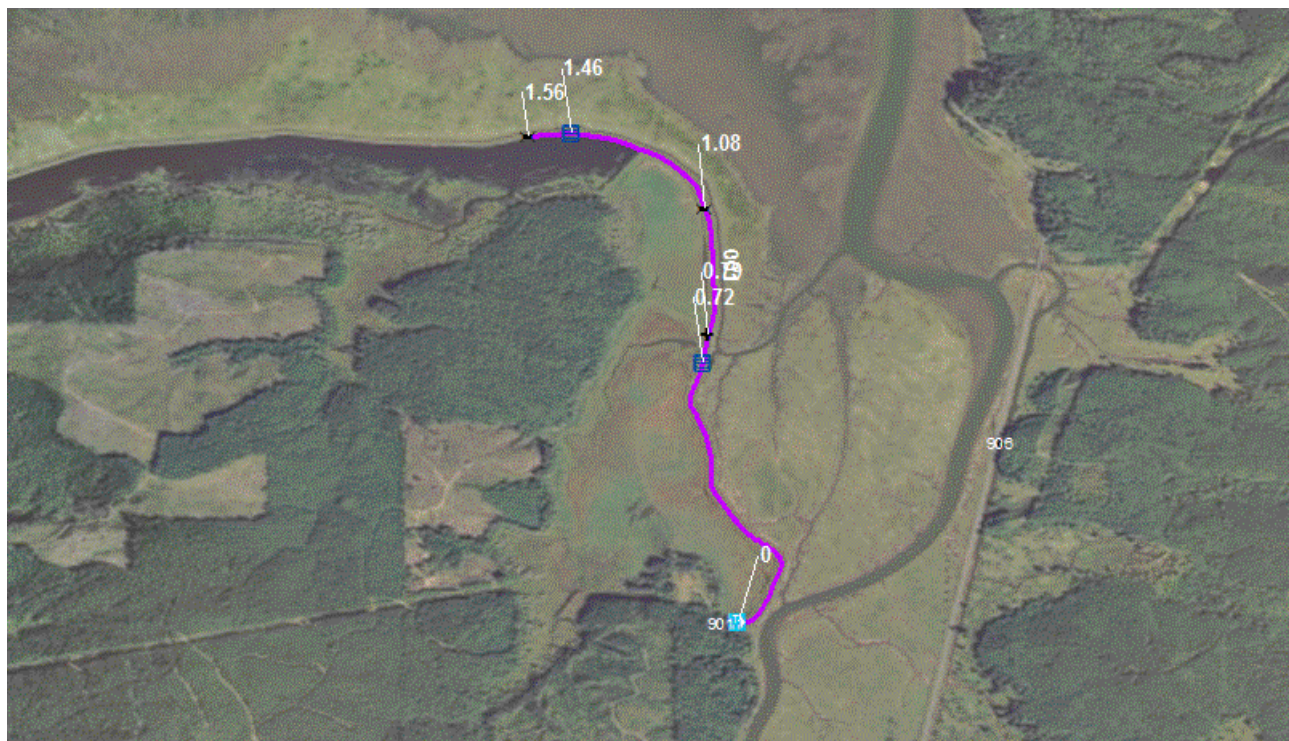
Total Length: 3.19 Miles

Section Number	006
Section Length (miles)	0.36
SAMMS Number	10003695
Rating Date	05/17/2007
Trail Section Information	
Trail Class	TC1
Surface Type	Native
Surface Firmness	Firm
Width (inches)	36
Average Grade (%)	6.8
Average X-slope (%)	2.20
Trail Condition Information	
Deferred Maintenance	
CRV	\$27,548
FCI	0.00
Condition	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$6,788	\$530,838	0.01	Good

TRAIL CONDITION



Trail Name: Lewis Dike Trail
Trail Number: T303

Refuge Name: Willapa NWR
Region: 1

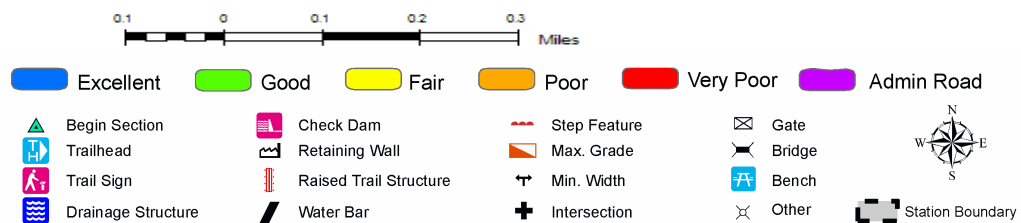
Total Length: 1.56 Miles

Section Number	001
Section Length (miles)	1.56
SAMMS Number	10003670
Rating Date	05/18/2007
Trail Section Information	
Trail Class	TC3
Surface Type	Admin Road
Surface Firmness	Firm
Width (inches)	108
Average Grade (%)	1.2
Average X-slope (%)	3.10
Trail Condition Information	
Deferred Maintenance	
CRV	
FCI	
Condition	

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition

TRAIL CONDITION



Trail Name: Lewis Cross Dike Trail
Trail Number: T304

Refuge Name: Willapa NWR
Region: 1

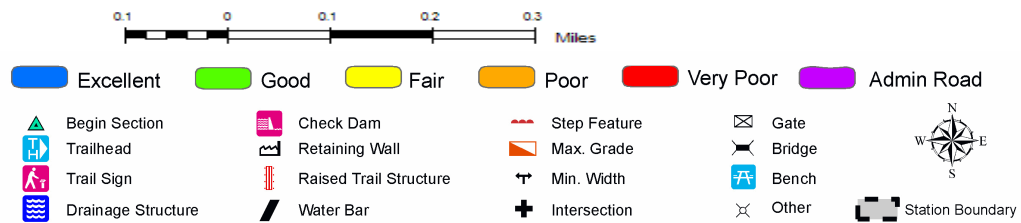
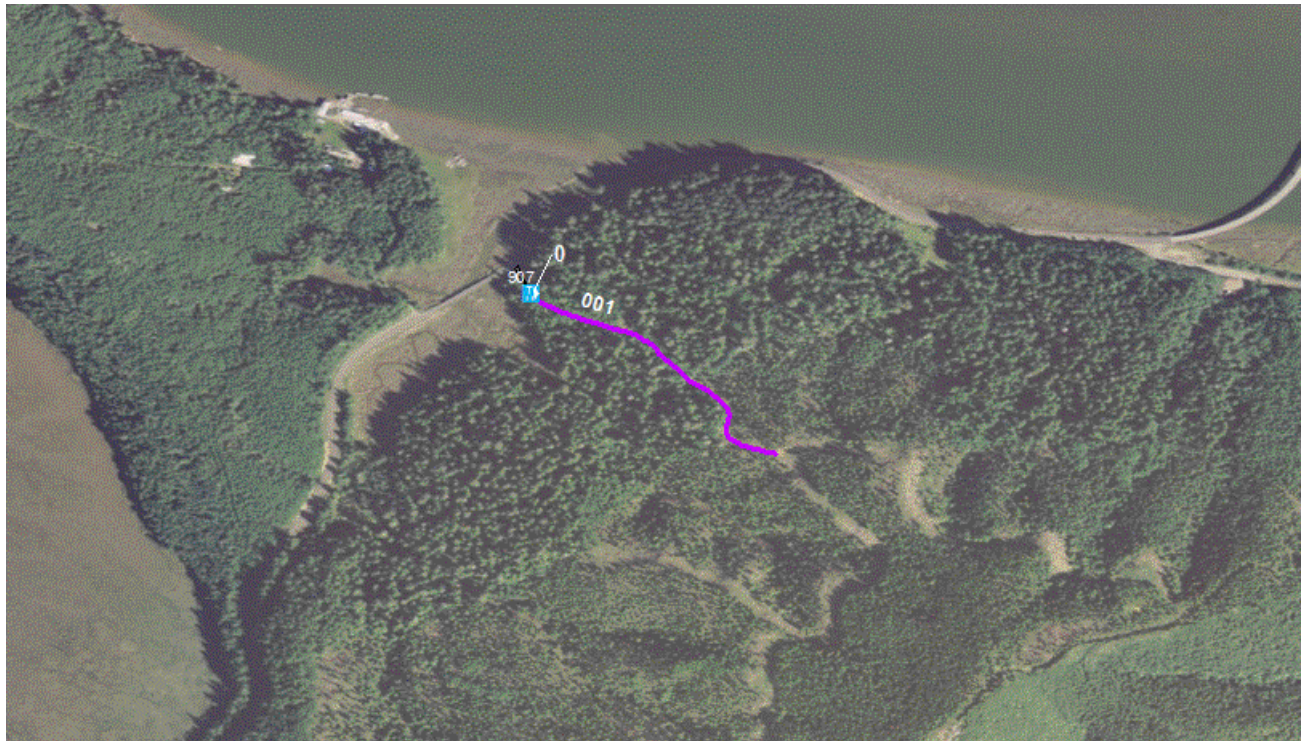
Total Length: 0.16 Miles

Section Number	001
Section Length (miles)	0.16
SAMMS Number	10003671
Rating Date	05/18/2007
Trail Section Information	
Trail Class	TC3
Surface Type	Admin Road
Surface Firmness	Firm
Width (inches)	120
Average Grade (%)	1.1
Average X-slope (%)	3.50
Trail Condition Information	
Deferred Maintenance	
CRV	
FCI	
Condition	

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition

TRAIL CONDITION



Trail Name: Teal Slough Trail

Refuge Name: Willapa NWR

Trail Number: T305

Region: 1

Total Length: 0.28 Miles

Section Number	001
Section Length (miles)	0.28
SAMMS Number	10036822
Rating Date	05/18/2007
Trail Section Information	
Trail Class	TC3
Surface Type	Admin Road
Surface Firmness	Firm
Width (inches)	108
Average Grade (%)	12.1
Average X-slope (%)	1.80
Trail Condition Information	
Deferred Maintenance	
CRV	
FCI	
Condition	

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition

TRAIL CONDITION



Trail Name: Salmon Art Trail

Refuge Name: Willapa NWR

Trail Number: T400

Region: 1

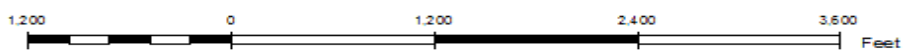
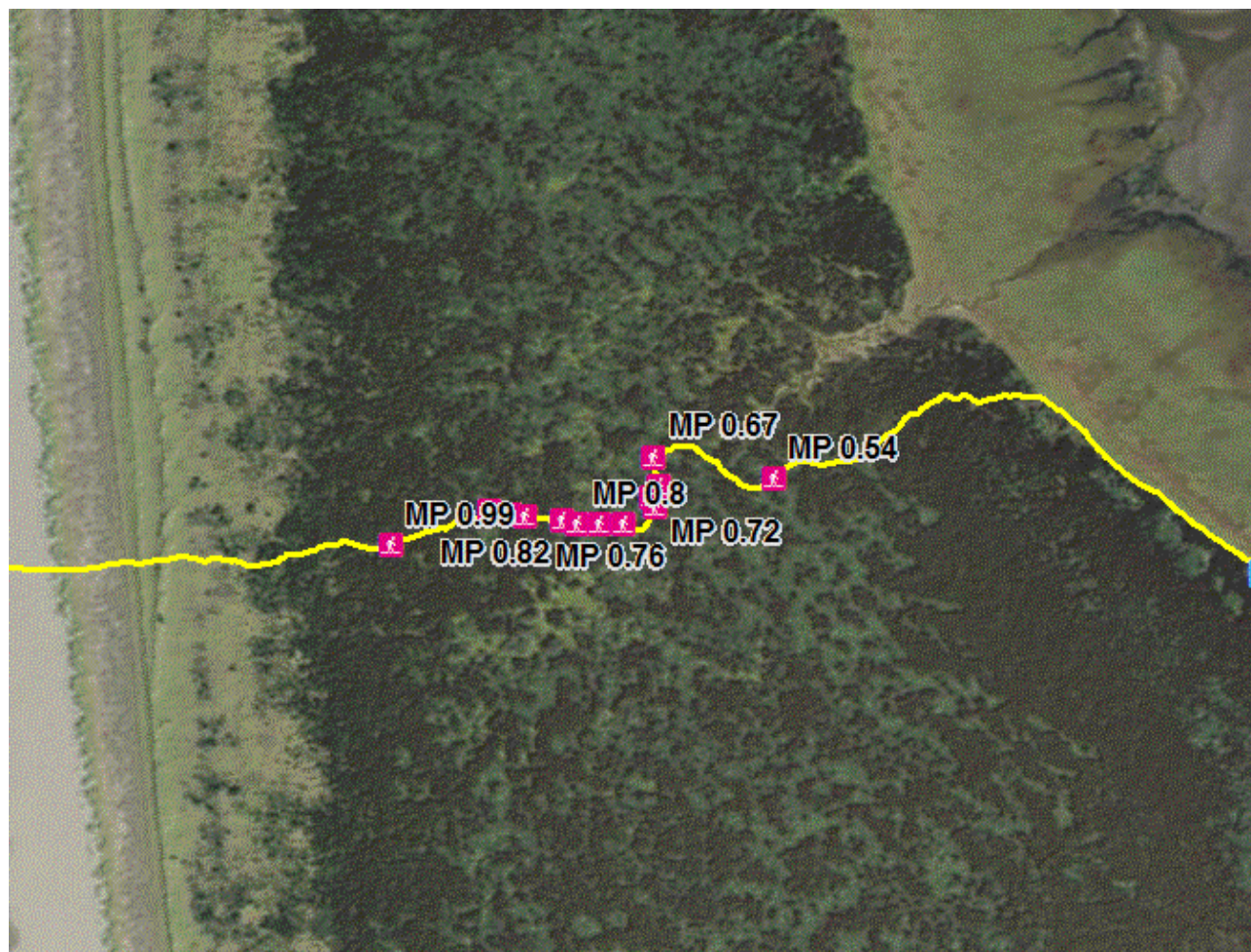
Total Length: 0.82 Miles

Section Number	001	002	003	004
Section Length (miles)	0.02	0.05	0.06	0.69
SAMMS Number	10053967	10052501	10052502	10053967
Rating Date	05/18/2007	05/18/2007	05/18/2007	05/18/2007
Trail Section Information				
Trail Class	TC4	TC4	TC4	TC3
Surface Type	Gravel	Boardwalk	Boardwalk	Native
Surface Firmness	Firm	Firm	Firm	Soft
Width (inches)	54	48	48	24
Average Grade (%)	7.8	7.8	7.8	7.8
Average X-slope (%)	1.90	1.90	1.90	1.90
Trail Condition Information				
Deferred Maintenance				
CRV	\$2,503	\$27,583	\$33,094	\$35,200
FCI	0.00	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$98,381	0.00	Excellent

TRAIL DEFICIENCY



Trail Name: Bearberry Trail

Refuge Name: Willapa NWR

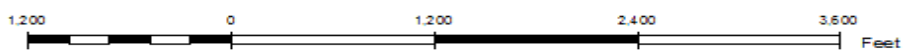
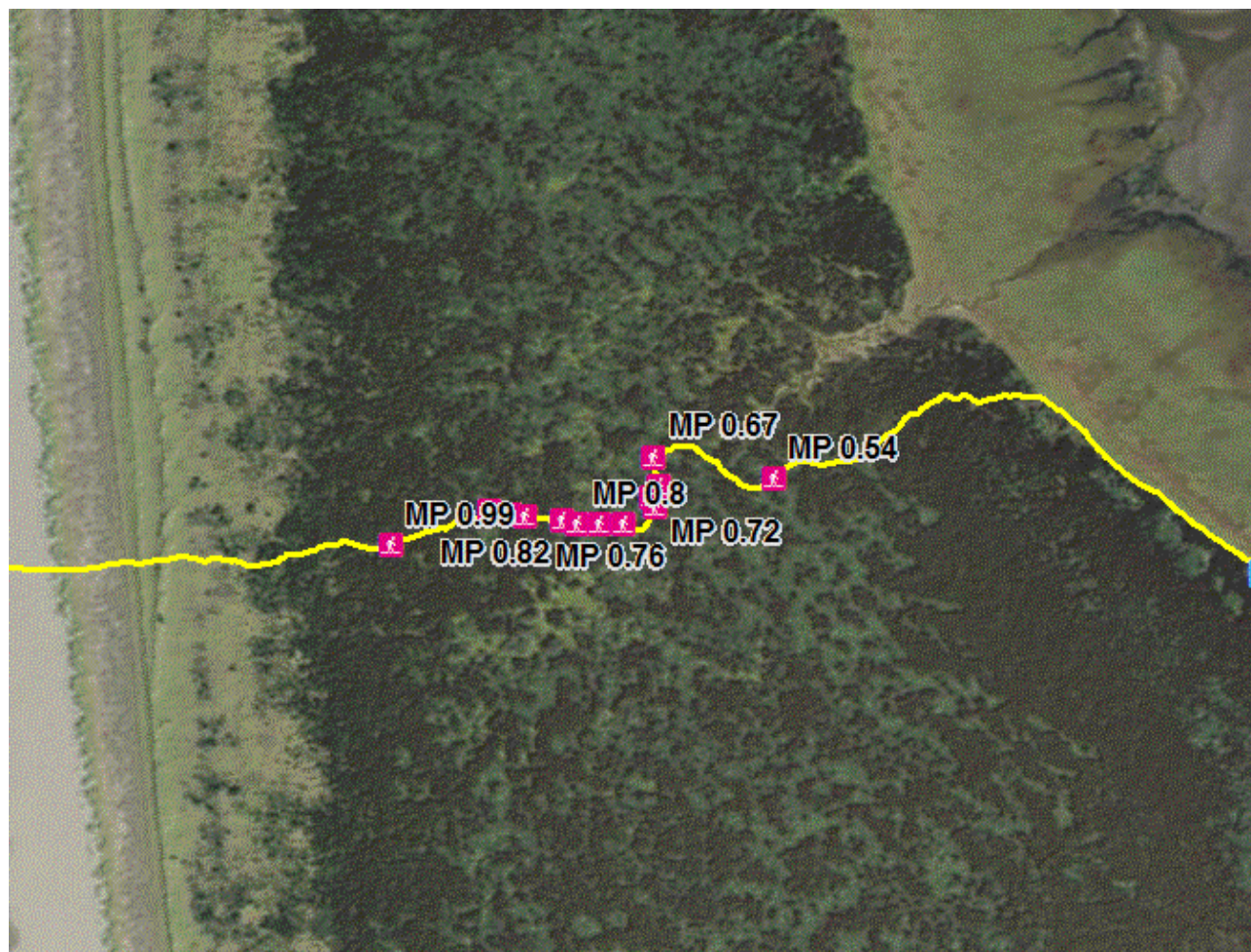
Trail Number: T200

Region: 1

Total Length: 1.35 Miles

Mile Post	0.54	0.67	0.70	0.71
Section Number	001	001	001	001
Photo Number	WILL_C2_0013	WILL_C2_0014	WILL_C2_0015	WILL_C2_0016
Deficiency	Drainage	Drainage	Drainage	Drainage
Action	Build/Add	Build/Add	Build/Add	Build/Add
Item	Step: Log -each	Step: Log -each	Step: Log -each	Step: Log -each
Quantity	4	4	5	3
Deferred Maintenance	\$492	\$492	\$603	\$382

TRAIL DEFICIENCY



Trail Name: Bearberry Trail

Refuge Name: Willapa NWR

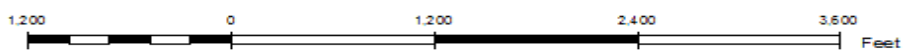
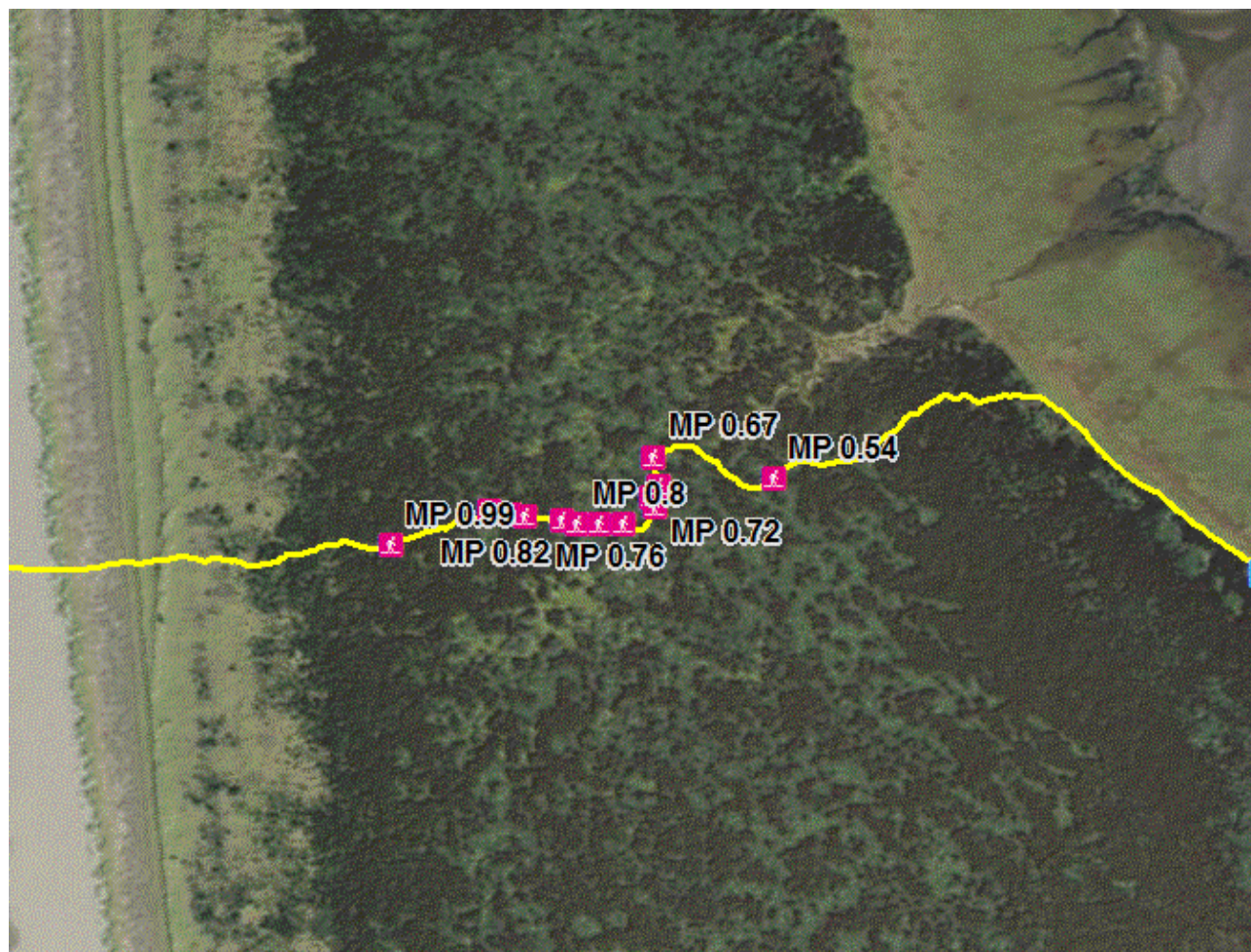
Trail Number: T200

Region: 1

Total Length: 1.35 Miles

Mile Post	0.72	0.76	0.79	0.80
Section Number	001	001	001	001
Photo Number	WILL_C2_0017	WILL_C2_0018	WILL_C2_0019	WILL_C2_0020
Deficiency	Drainage	Drainage	Drainage	Drainage
Action	Build/Add	Build/Add	Build/Add	Build/Add
Item	Tread -sf	Tread -sf	Tread -sf	Tread -sf
Quantity	100	60	50	22
Deferred Maintenance	\$532	\$339	\$290	\$155

TRAIL DEFICIENCY



Trail Name: Bearberry Trail

Refuge Name: Willapa NWR

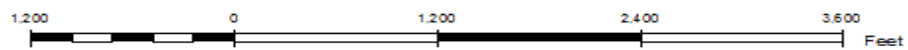
Trail Number: T200

Region: 1

Total Length: 1.35 Miles

Mile Post	0.82	0.85	0.87	0.89
Section Number	001	001	001	001
Photo Number	WILL_C2_0021	WILL_C2_0022	WILL_C2_0023	WILL_C2_0024
Deficiency	Drainage	Drainage	Drainage	Drainage
Action	Build/Add	Build/Add	Build/Add	Build/Add
Item	Step: Log -each	Tread -sf	Step: Log -each	Tread -sf
Quantity	10	80	5	40
Deferred Maintenance	\$1,158	\$435	\$603	\$242

TRAIL DEFICIENCY



Trail Name: Bearberry Trail

Refuge Name: Willapa NWR

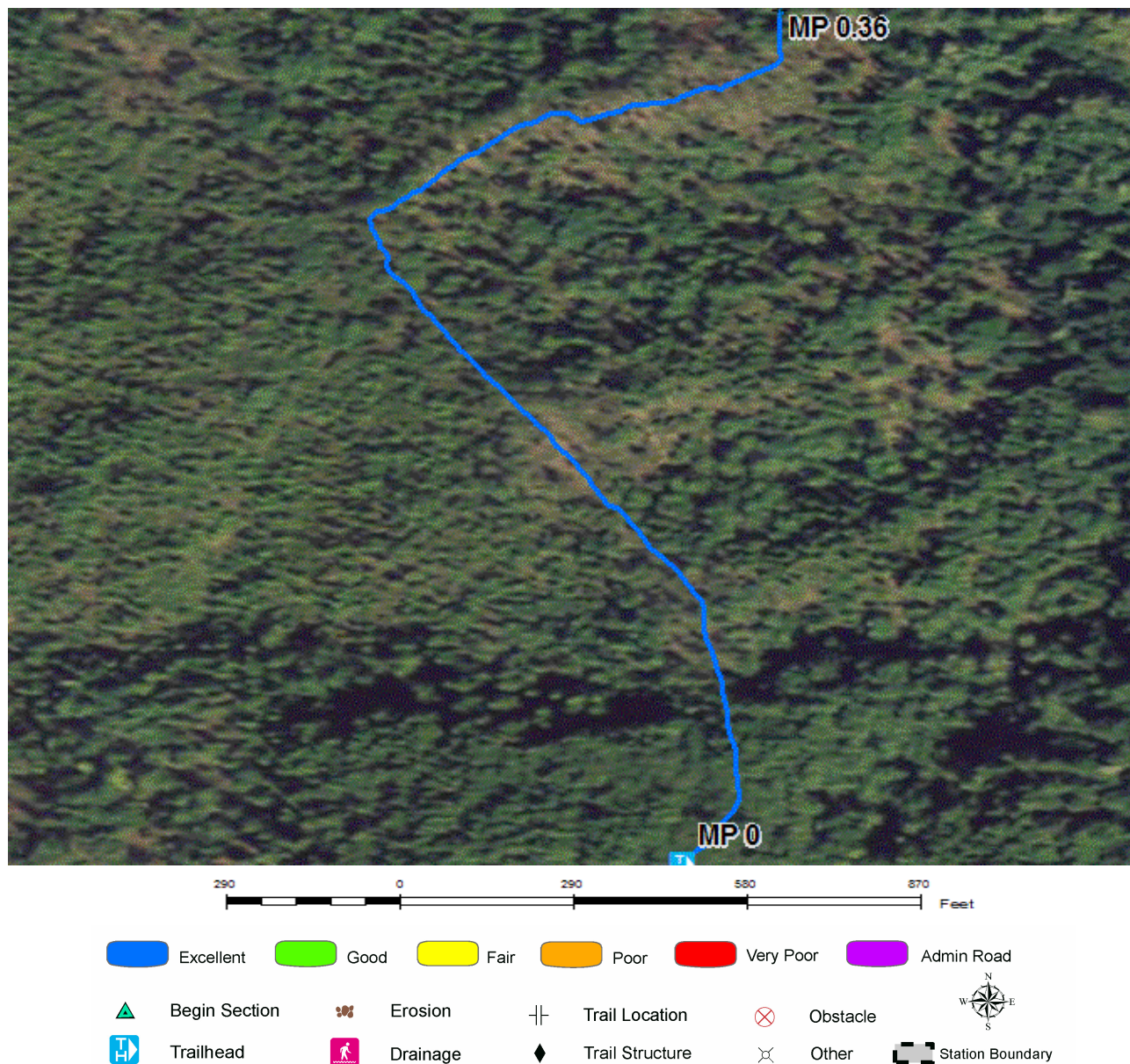
Trail Number: T200

Region: 1

Total Length: 1.35 Miles

Mile Post	0.99
Section Number	001
Photo Number	WILL_C2_0025
Deficiency	Drainage
Action	Build/Add
Item	Tread -sf
Quantity	30
Deferred Maintenance	\$194

TRAIL DEFICIENCY



Trail Name: No Name Trail

Refuge Name: Willapa NWR

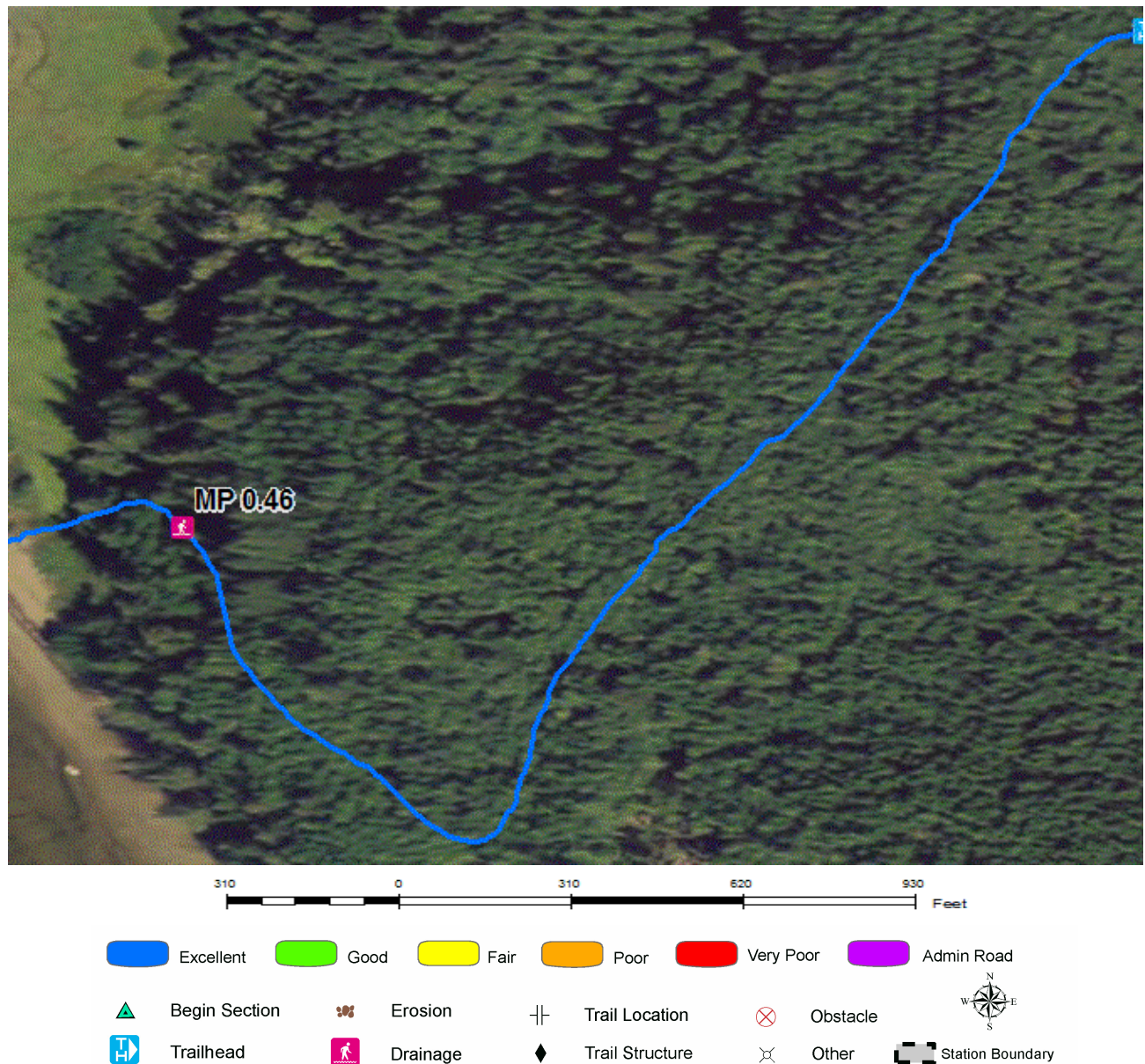
Trail Number: T201

Region: 1

Total Length: 0.36 Miles

Mile Post	0.36
Section Number	001
Photo Number	WILL_C2_0060
Deficiency	Trail Location
Action	Repair
Item	Trail: New -If
Quantity	0
Deferred Maintenance	

TRAIL DEFICIENCY



Trail Name: Sand Spit Trail

Refuge Name: Willapa NWR

Trail Number: T203

Region: 1

Total Length: 0.52 Miles

Mile Post	0.46
Section Number	001
Photo Number	WILL_C2_0089
Deficiency	Drainage
Action	Build/Add
Item	Drainage Ditch -lf
Quantity	28
Deferred Maintenance	\$175

TRAIL DEFICIENCY



Trail Name: Leadbetter Bay Loop Trail

Refuge Name: Willapa NWR

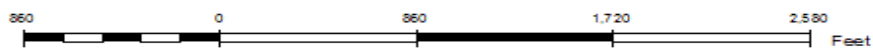
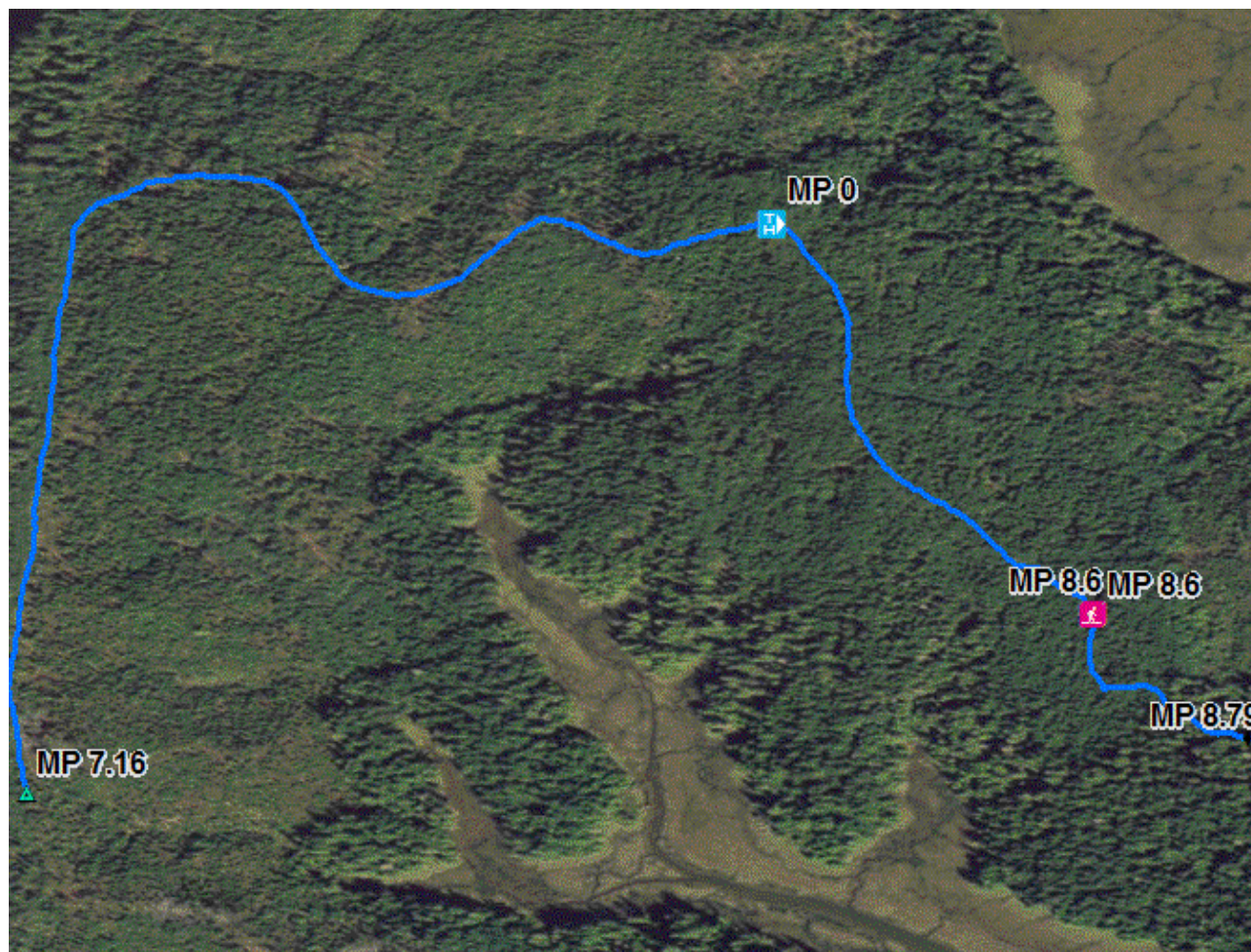
Trail Number: T300

Region: 1

Total Length: 0.75 Miles

Mile Post	0.05
Section Number	001
Photo Number	WILL_C2_0004
Deficiency	Trail Location
Action	Remove
Item	Trail: Social -lf
Quantity	600
Deferred Maintenance	\$0

TRAIL DEFICIENCY



Trail Name: Center Road Trail

Refuge Name: Willapa NWR

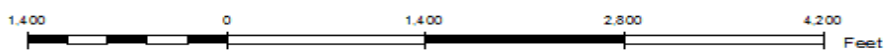
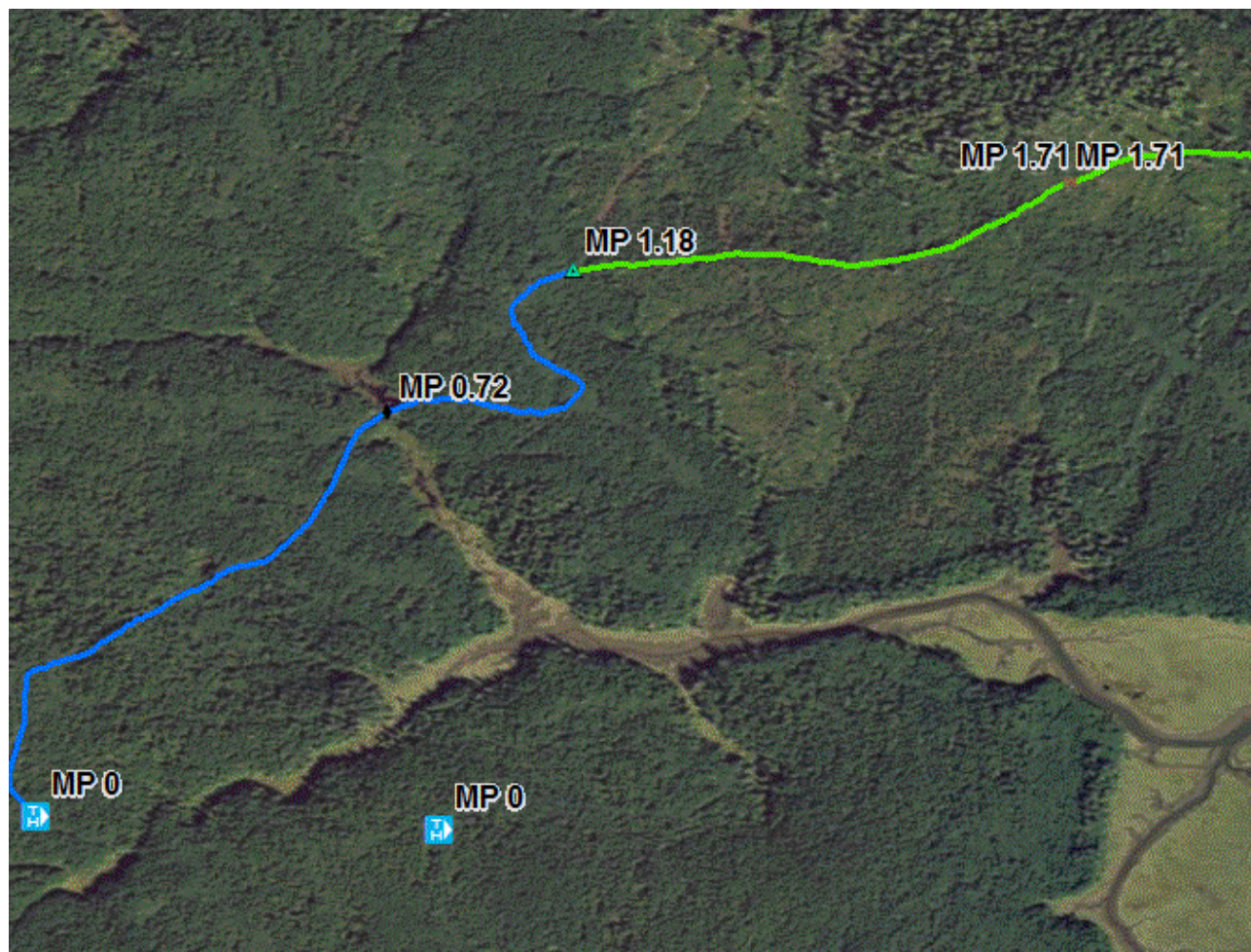
Trail Number: T301

Region: 1

Total Length: 9.02 Miles

Mile Post	8.60	8.60	8.79
Section Number	004	004	004
Photo Number	WILL_C2_0040	WILL_C2_0040	WILL_C2_0043
Deficiency	Drainage	Drainage	Trail Structure
Action	Repair	Build/Add	Replace
Item	Tread -sf	Water Bar:Wood -each	Puncheon -lf
Quantity	90	3	75
Deferred Maintenance	\$266	\$348	\$1,092

TRAIL DEFICIENCY



Trail Name: Paradise Point Trail

Refuge Name: Willapa NWR

Trail Number: T302

Region: 1

Total Length: 3.19 Miles

Mile Post	0.72	1.71	1.71	1.81
Section Number	001	002	002	002
Photo Number	WILL_C2_0052	WILL_C2_0054	WILL_C2_0054	WILL_C2_0055
Deficiency	Trail Structure	Erosion	Erosion	Erosion
Action	Replace	Build/Add	Build/Add	Build/Add
Item	Bridge -sf	Tread -sf	Culvert -lf	Drainage Dips -each
Quantity	48	66	22	1
Deferred Maintenance	\$3,797	\$368	\$2,515	\$108

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T200
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0010 - MP 0.00 - Trailhead

TRAIL NUMBER: T200
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0011 - MP 0.00 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T200
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0012 - MP 0.18 - Sign

TRAIL NUMBER: T200
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0027 - MP 1.22 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T200
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0028 - MP 1.23 - Sign

TRAIL NUMBER: T201
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0049 - MP 0.00 - Trailhead

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T202
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0058 - MP 0.00 - Trailhead

TRAIL NUMBER: T203
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0087 - MP 0.00 - Trailhead

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T203
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0088 - MP 0.00 - Sign

TRAIL NUMBER: T203
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0090 - MP 0.52 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T204
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0091 - MP 0.00 - Sign

TRAIL NUMBER: T204
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0092 - MP 0.00 - Trailhead

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T205
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0094 - MP 0.00 - Sign

TRAIL NUMBER: T205
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0093 - MP 0.00 - Trailhead

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T206
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0095 - MP 0.00 - Trailhead

TRAIL NUMBER: T206
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0096 - MP 0.17 - Boardwalk -lf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T206
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0097 - MP 0.21 - Sign

TRAIL NUMBER: T206
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0098 - MP 0.23 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T206
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0099 - MP 0.23 - Begin Section

TRAIL NUMBER: T206
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0100 - MP 0.23 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T206
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0101 - MP 0.34 - Boardwalk -lf

TRAIL NUMBER: T206
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0102 - MP 0.36 - Boardwalk -lf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T206
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0103 - MP 0.40 - Boardwalk -lf

TRAIL NUMBER: T207
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0105 - MP 0.00 - Trailhead

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T207
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0106 - MP 0.00 - Sign

TRAIL NUMBER: T207
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0107 - MP 0.48 - Begin Section

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T207
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0108 - MP 0.63 - Sign

TRAIL NUMBER: T207
STATION: Willapa NWR
DATE: 05/19/2007



Photo # WILL_C2_0109 - MP 0.48 - Begin Section

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T300
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0001 - MP 0.00 - Trailhead

TRAIL NUMBER: T300
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0002 - MP 0.00 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T300
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0003 - MP 0.00 - Sign

TRAIL NUMBER: T300
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0005 - MP 0.06 - Boardwalk -lf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T300
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0006 - MP 0.06 - Sign

TRAIL NUMBER: T300
STATION: Willapa NWR
DATE: 08/09/2007



Photo # WILL_C2_0032 - MP 0.00 - Begin Section

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T300
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0030 - MP 0.07 - Begin Section

TRAIL NUMBER: T300
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0029 - MP 0.20 - Begin Section

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T300
STATION: Willapa NWR
DATE: 05/16/2007



Photo # WILL_C2_0009 - MP 0.58 - Begin Section

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0033 - MP 0.00 - Trailhead

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0034 - MP 1.05 - Sign

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0035 - MP 2.67 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0036 - MP 4.39 - Begin Section

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0037 - MP 5.54 - Begin Section

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0038 - MP 7.16 - Begin Section

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0039 - MP 8.54 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0041 - MP 8.66 - Sign

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0042 - MP 8.70 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0043 - MP 8.78 - Puncheon -lf

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0044 - MP 8.80 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0045 - MP 8.80 - Begin Section

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0046 - MP 8.92 - Bridge -sf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0047 - MP 8.94 - Bridge -sf

TRAIL NUMBER: T301
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0048 - MP 9.02 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T302
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0050 - MP 0.00 - Trailhead

TRAIL NUMBER: T302
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0052 - MP 0.72 - Bridge -sf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T302
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0053 - MP 1.18 - Begin Section

TRAIL NUMBER: T302
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0056 - MP 1.91 - Begin Section

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T302
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0057 - MP 2.32 - Begin Section

TRAIL NUMBER: T302
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0059 - MP 1.18 - Begin Section

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T302
STATION: Willapa NWR
DATE: 05/17/2007



Photo # WILL_C2_0060 - MP 1.55 - Begin Section

TRAIL NUMBER: T303
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0063 - MP 0.00 - Trailhead

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T303
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0064 - MP 1.08 - Bridge -sf

TRAIL NUMBER: T303
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0065 - MP 1.56 - Bridge -sf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T304
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0066 - MP 0.00 - Trailhead

TRAIL NUMBER: T305
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0085 - MP 0.00 - Trailhead

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0068 - MP 0.00 - Trailhead

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0069 - MP 0.02 - Begin Section

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0070 - MP 0.07 - Begin Section

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0072 - MP 0.11 - Begin Section

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0071 - MP 0.13 - Boardwalk -lf

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0078 - MP 0.15 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0073 - MP 0.27 - Boardwalk -lf

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0074 - MP 0.52 - Boardwalk -lf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0075 - MP 0.52 - Boardwalk -lf

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0076 - MP 0.54 - Boardwalk -lf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0077 - MP 0.60 - Sign

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0082 - MP 0.71 - Puncheon -lf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0083 - MP 0.71 - Sign

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0081 - MP 0.74 - Boardwalk -lf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0080 - MP 0.75 - Boardwalk -lf

TRAIL NUMBER: T400
STATION: Willapa NWR
DATE: 05/18/2007



Photo # WILL_C2_0070 - MP 0.76 - Boardwalk -lf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400

STATION: Willapa NWR

DATE: 05/18/2007



Photo # WILL_C2_0084 - MP 0.82 - Sign

Glossary of Terms and Abbreviations

Acc Info	Accessibility information available at trailhead.
Action	Action required to correct deficiency.
Admin Road	Administration Road. Admin Roads signed and advertised as trails are included in the trail inventory but a condition assessment is NOT done.
Alt SAMMS	SAMMS number of Alternate Facility Type.
Alt Type	Alternate Facility Type. Trail lies on a feature such as a levee, dam, administrative road or bridge, which has a separate SAMMS number.
AvgGrade	The average grade of the trail (%). The average of five measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.
AvgSlope	The average cross-slope of the trail (%). The average of five measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.
Check Dam	A small dam constructed across a drainage ditch, swale, or channel to lower the speed of concentrated flows.
Condition	Subjective rating of trail based on Facility Condition Index (FCI): FCI \leq .01 = Excellent FCI .02 - .05 = Good FCI .06 - .10 = Fair FCI .11 - .20 = Poor FCI $>$.20 = Failed
Crib Wall	Retaining wall.
Current Replacement Value (CRV)	The value of an asset determined by the estimated cost of replacing it.
Def type	Deficiency Type: Trail Structure, Drainage, Erosion, Obstacle, Trail Location, Other.
Deferred Maintenance (DM)	Maintenance that was not performed when scheduled.

Elem ID	Unique identifier for each trail section: Org Code-Trail Number-Section Number.
Facility Condition Index (FCI)	DM/CRV
Grouped Features	Grouped features include non-unique signs (mileposts, interpretive signs, species identification, etc.), water bars, check dams, steps, drain and drainage dips. For any given grouped feature, a GPS point and photo are taken for the first occurrence only and the total number of features in the group are entered into the “quantity” field of the data dictionary.
Info Type	Type of accessibility information available at trailhead: brochure, sign or other.
Item	Item on which the “Action” (see above) will be performed.
Manage_Use	Managed use of the trail: HIKE, BIKE, NSPC (non-specified), PACK, POR (portage), SNOWSHOE, XSKI (cross-country ski), OTHER.
MP	Distance of a trail feature or deficiency from the Trailhead.
Puncheon	Log footbridge used in area of poor drainage.
Raised Trail Structure	Boardwalk, Turnpike, Puncheon.
T Class	Trail Class: I-V (see Appendix ? for trail class descriptions).
Tr Desig	Trail Designation: Standard (Std), National Historic Trail (NHT), National Recreation Trail (NRT), National Scenic Trail (NST).
Turnpike	Trail tread elevated with dirt, rock or other aggregate from parallel side ditches and held in place by logs.